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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/042,908	01/08/2002	G. William Walster	SUN-P7075-SPL	4530
22835 7	590 11/03/2004		EXAMINER	
,	GHAN & FLEMING	NGO, CHUONG D		
508 SECOND SUITE 201	STREET		ART UNIT	PAPER NUMBER
DAVIS, CA 95616			2124	

DATE MAILED: 11/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summany		Application No.	Applicant(s)			
		10/042,908	WALSTER ET AL.			
-	Office Action Summary	Examiner	Art Unit			
	·	Chuong D Ngo	2124			
Period fo	 The MAILING DATE of this communicated reply 	ation appears on the cover sheet w	vith the correspondence address			
THE N - Exten after S - If the - If NO - Failure Any re	PRTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICATIONS of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communication of the reply specified above is less than thirty (30) of period for reply is specified above, the maximum statute to to reply within the set or extended period for reply will exply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no event, however, may a ication. lays, a reply within the statutory minimum of thiory period will apply and will expire SIX (6) MO I, by statute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communivible (35 U.S.C. § 133).	cation.		
Status						
1) 又	Responsive to communication(s) filed	on 08 January 2002				
)⊠ This action is non-final.				
3)□	<u>-</u>					
•	closed in accordance with the practice	under Ex parte Quayle, 1935 C.I	J. 11, 453 O.G. 213.			
Dispositio	on of Claims					
5)⊠ (6)⊠ (7)□ (Claim(s) <u>1-21</u> is/are pending in the applea) Of the above claim(s) is/are Claim(s) <u>8-14</u> is/are allowed. Claim(s) <u>1-7 and 15-21</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction	withdrawn from consideration.				
Application	on Papers					
10)∏ T	he specification is objected to by the End of the drawing(s) filed on <u>01/08 &05/12/00</u> Applicant may not request that any objection of the placement drawing sheet(s) including the placement of declaration is objected to be	$\underline{2}$ is/are: a) \square accepted or b) \square on to the drawing(s) be held in abeya e correction is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.1			
Priority u	nder 35 U.S.C. § 119					
12) <u></u> A a) <u></u> 2	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority do Certified copies of the priority do S. Copies of the certified copies of application from the International see the attached detailed Office action for the certified copies of the certified copies of application from the International see the attached detailed Office action for the certified copies of the cer	cuments have been received. cuments have been received in A the priority documents have beer I Bureau (PCT Rule 17.2(a)).	Application No n received in this National Stage	;		
Attachment(
2) 🔲 Notice 3) 🔯 Inform	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO ation Disclosure Statement(s) (PTO-1449 or PTO No(s)/Mail Date 06/14/04.	-948) Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152)			

Art Unit: 2124

DETAILED ACTION

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. Claims 1-7 and 15-21 are rejected under 35 USC 101 because the claimed invention is directed to non-statutory subject matter.

The instant claims recite a computer-related method (claims 1-7) and apparatus (claims 15-21) for performing mathematical functions according a mathematical algorithm to solve a system of nonlinear equations specified by a function f. The method claims merely involve data manipulations and computations, and the apparatus claims merely recite a non-specific circuit with each claimed mechanism merely corresponds to a functional box in the flow chart rather than a physical means for performing the recited mathematical functions. Therefore, the claimed apparatus encompasses any and every machine that implements the recited data manipulation and computation steps. In order for a claim that is directed to such method or apparatus to be statutory, the claim must includes either a step that results in a physical transformation outside the computer or a limitation to a practical application. It is clear from claims 1-12 and 25-36 that the claims merely recite data computation and manipulation steps and non specific machine for performing these step to solve a system of nonlinear equations specified by a function f. The inputs are numbers and the outputs are also numbers. The

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claims fail to recite any limitation that results in a physical transformation outside the computer or a limitation to a practical application, or that requires a specific computing apparatus to implementing method. Therefore, claims 1-7 and 15-21 are directed to non-statutory subject matter.

- 3. Claims 7-14 are allowed.
- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuong D Ngo whose telephone number is (703) 305-9764. The examiner can normally be reached on Tuesday-Friday. After October 28, 2004, the new examiner's new telephone number is (571) 272-3731.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on (703) 309-9662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chuong D Ngo Primary Examiner Art Unit 2124

10/18/2004